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Applications:

in clamping bars and blocks

▶ for workpiece and die clamping and locking

when the available space is narrow and shallow

Function:

Plunger piston with integral pull-back spring, stroke limitation and fastening screw as a subassembly which cannot be dismantled. Sealing ring made from PTFE, O-ring as static seal.

The piston is hardened and ground. On request, a wiper ring is supplied for installation in the housing. Special seals are available on request.

Special features:

- Low installation height
 - Very compact design

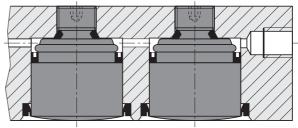
• Extremely low overall height, despite pull-back spring and fully utilisable stroke

- Easily replaceable
- High power density

For power units please see product group 7 For accessories please see product group 11

Example of application Built-in piston integrated in a clamping bar

(Thread locked using Loctite no. 242)









Clamping force at	250 bar (kN)	12,25	20	31,25	48,75
Clamping force at 100 bar (kN)		4,9	8	12,5	19,5
Min. spring return force (N)		130	200	230	400
Piston Ø d	(mm)	25	32	40	50
Stroke	(mm)	8	8	8	12
Total oil consumpt	ion (cm ³)	4	7	10	24
а	(mm)	40	47	50	75
b	(mm)	32,5	34,5	36	56
С	(mm)	23,5	25	26	43
е	(mm)	11,5	14	19,5	24
f	(mm)	32	42	47	58
g	(mm)	G 1/8	G 1/4	G 3/8	G 1/2
r	(mm)	50	100	150	200
SW	(mm)	4	6	6	8
Tightening torque	(Nm)	10	20	25	30
Weight	(kg)	0,10	0,17	0,28	0,59
	Part no.	1072-010	1073-010	1074-010	1075-020
Wiper ring	Part no.	5700-001	5700-002	5700-003	5700-004
Set of seals	Part no.	5700-005	5700-006	5700-007	5700-008
Mounting sleeve	Part no.	5700-009	5700-010	5700-011	5700-012

Max. operating pressure 250 bar

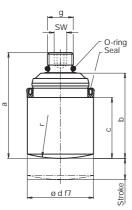
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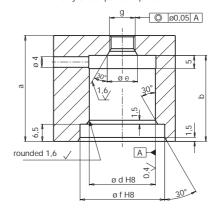
Lateral forces should be less than 5% of clamping forces. To ensure perfect operation, the installation dimensions and surface qualities must be strictly observed. Use an Allan key for assembly and dismantling. Replace the O-ring after dismantling. The max. service temperature is 80°C. Lock the thread using Loctite no. 242.

Built-in piston



Drilled location hole

Hydraulic oil supply through holes drilled in the base. Only one oil port is required.



Wiper ring



Mounting sleeve for built-in piston and wiper ring

